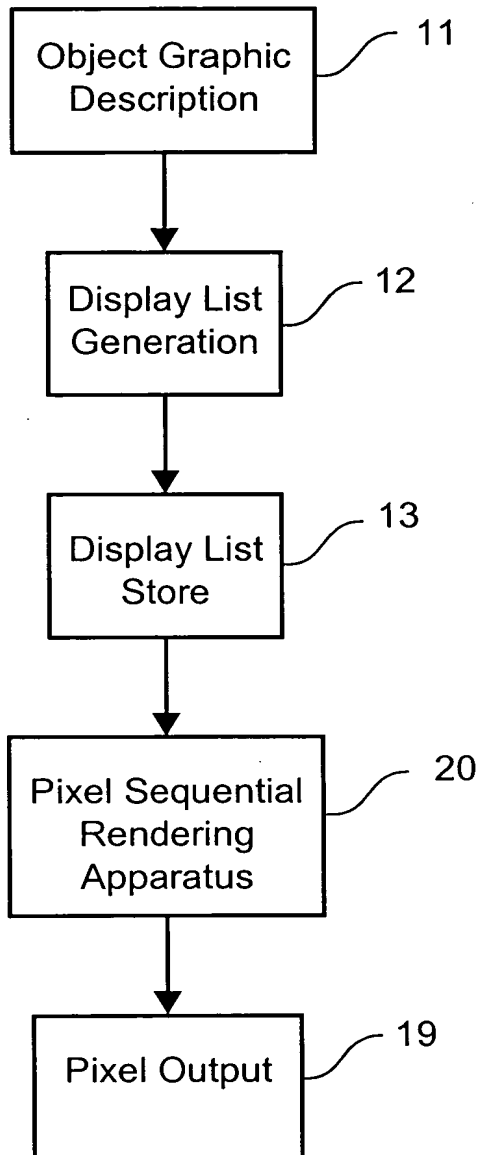


Fig. 1

**Fig. 2**

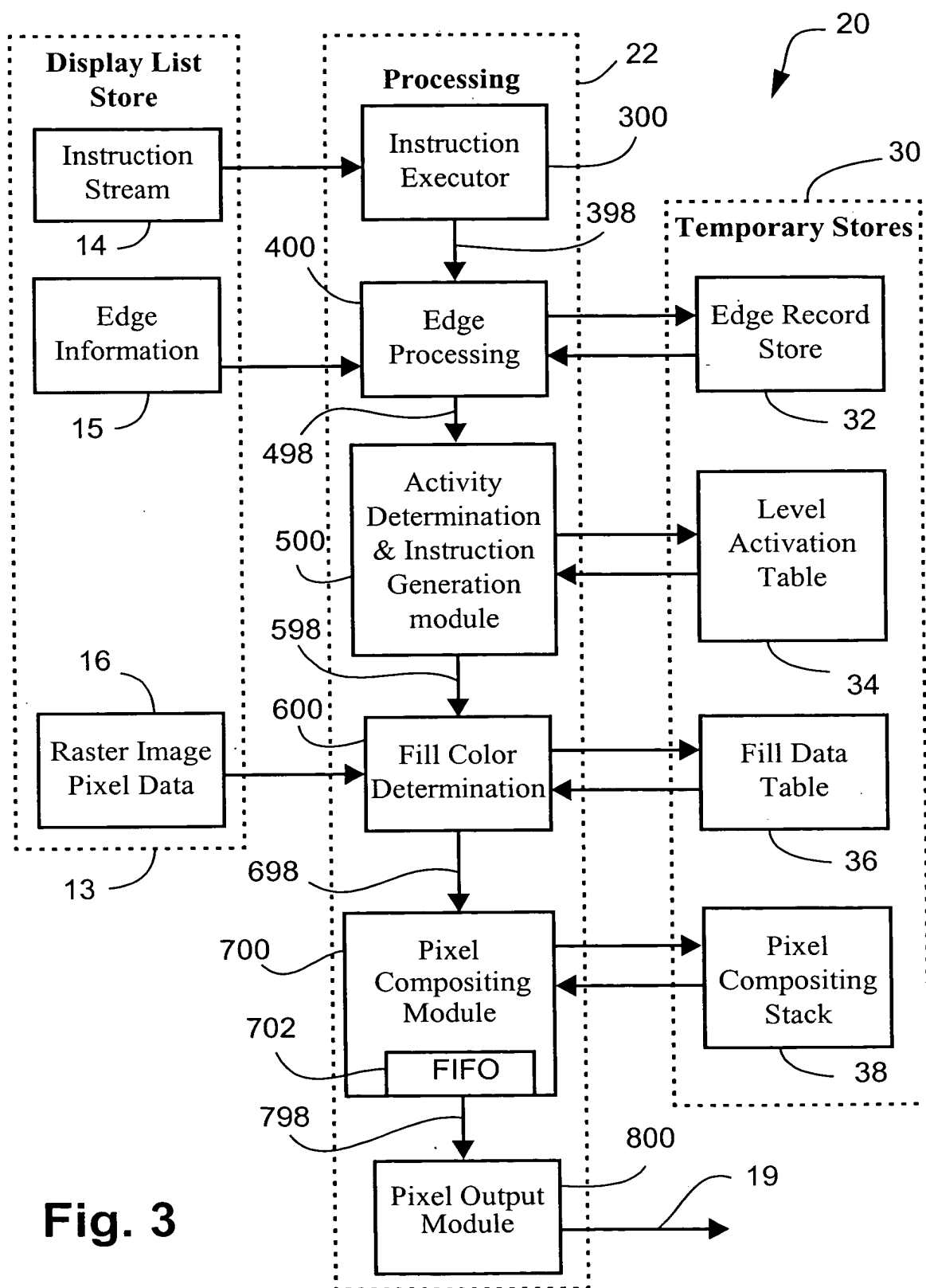


Fig. 3

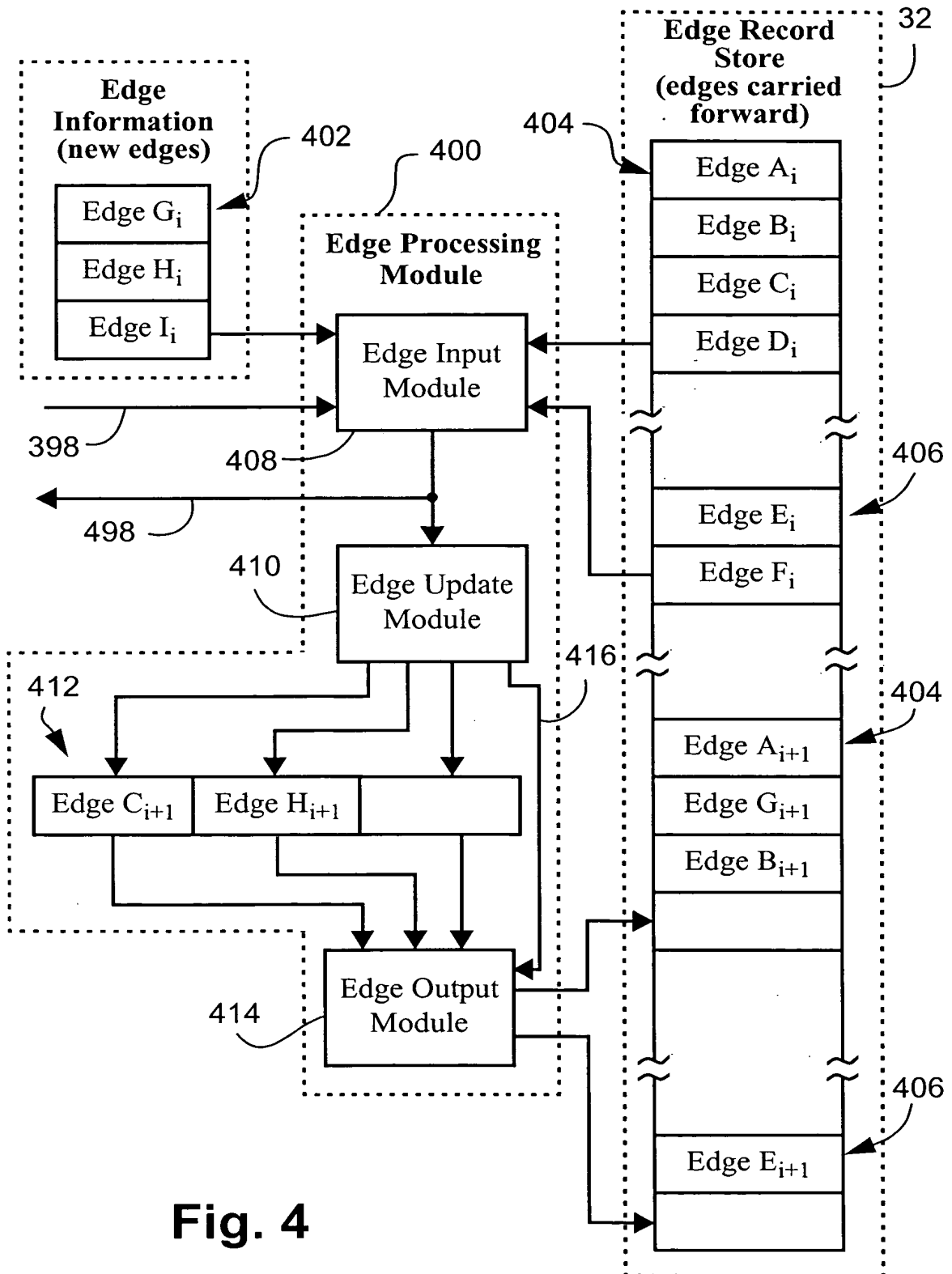
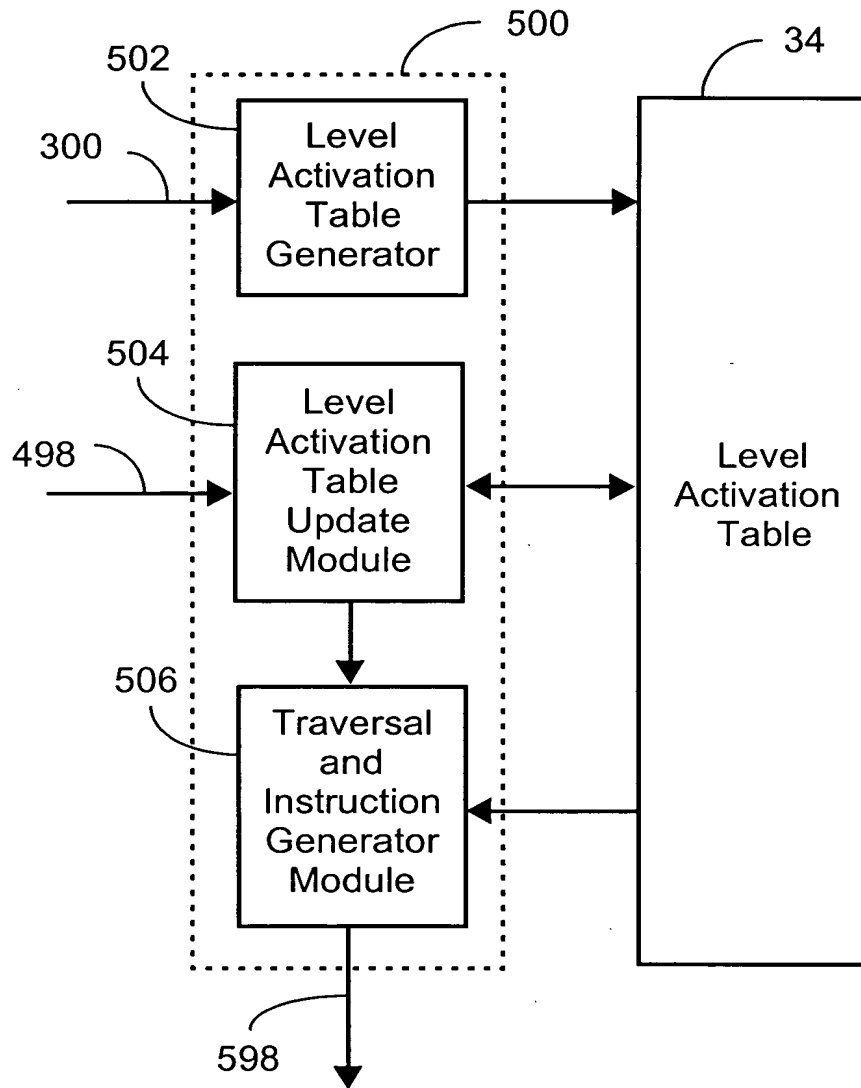
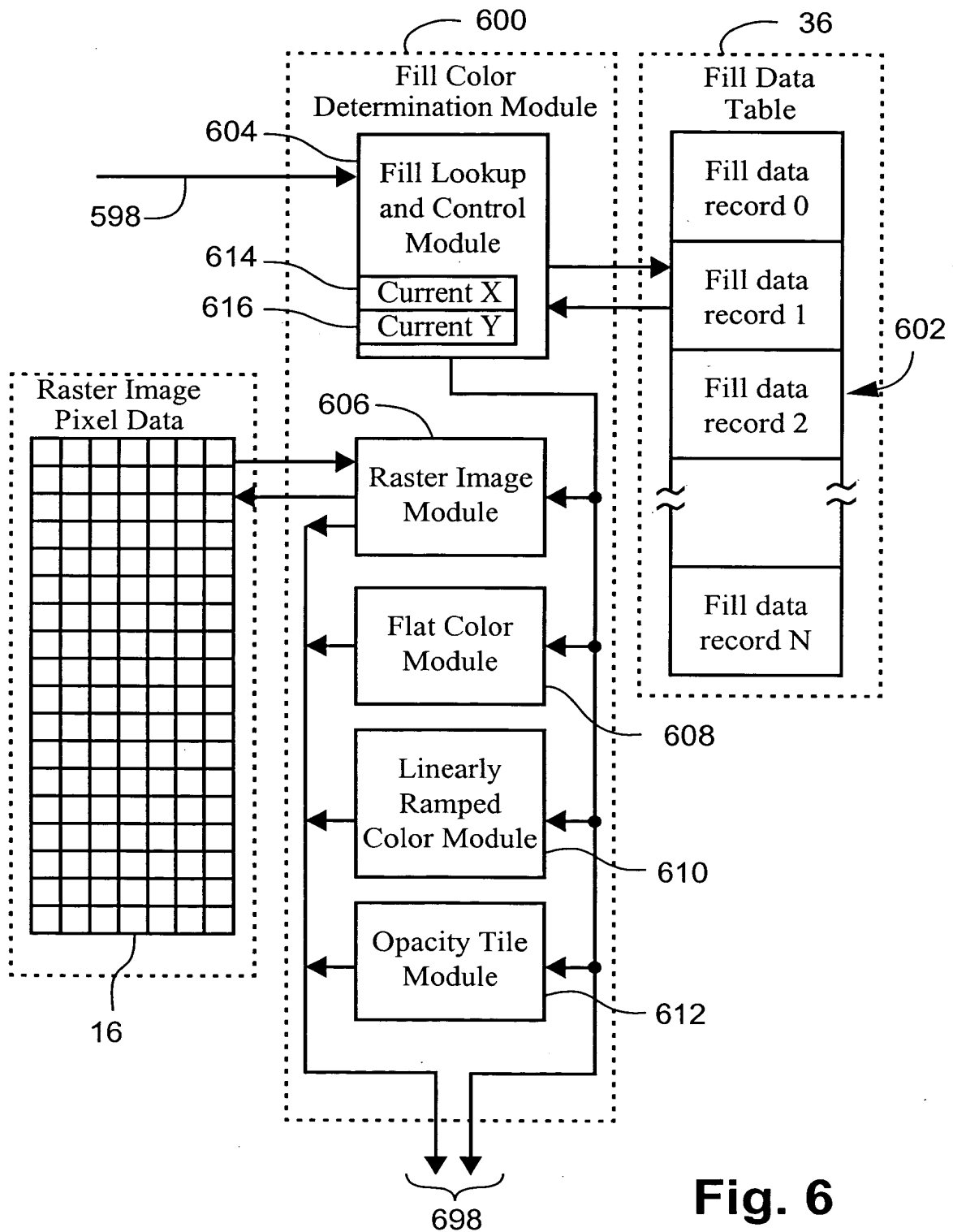
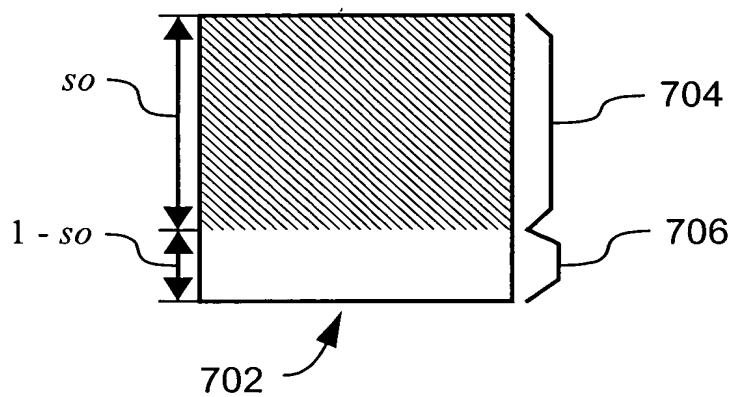
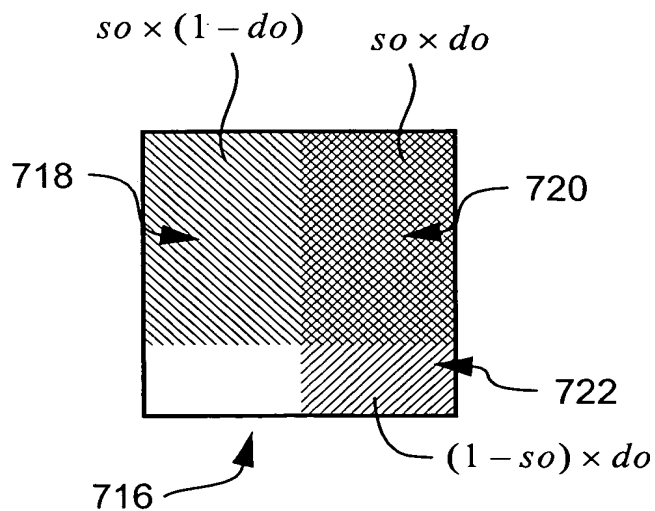
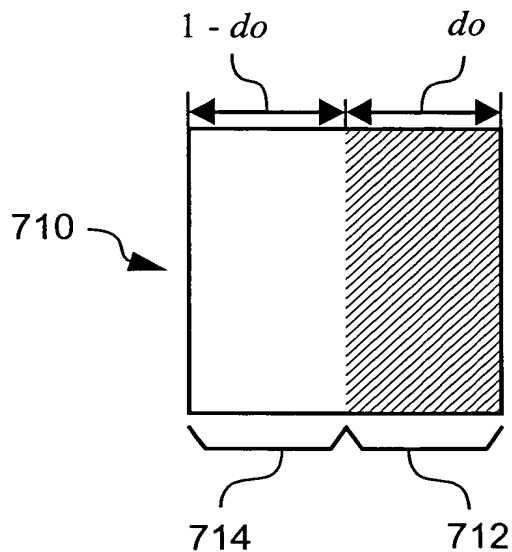
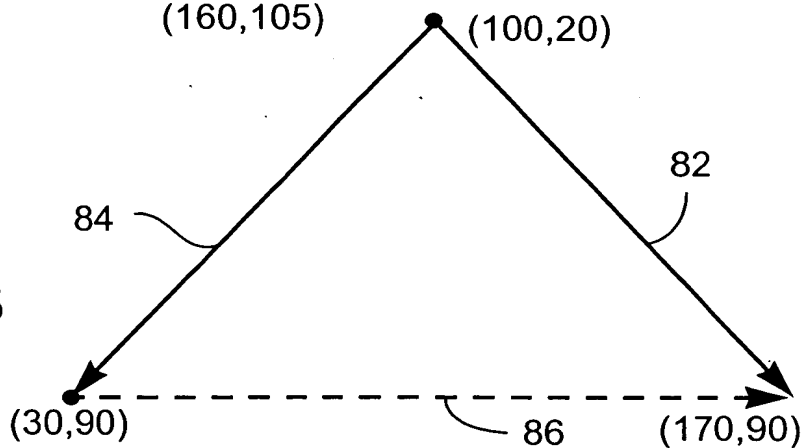
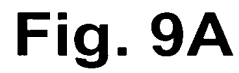


Fig. 4

**Fig. 5**

**Fig. 6**

**Fig. 7A****Fig. 7B****Fig. 7C**



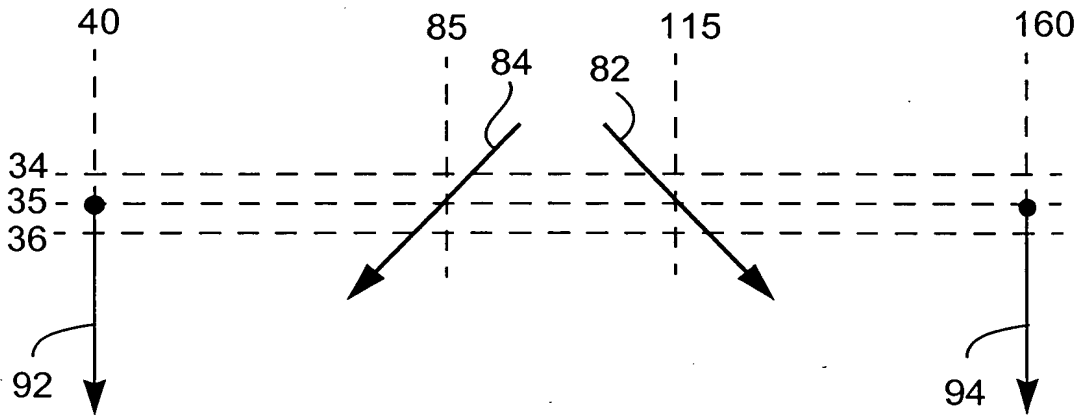


Fig. 10

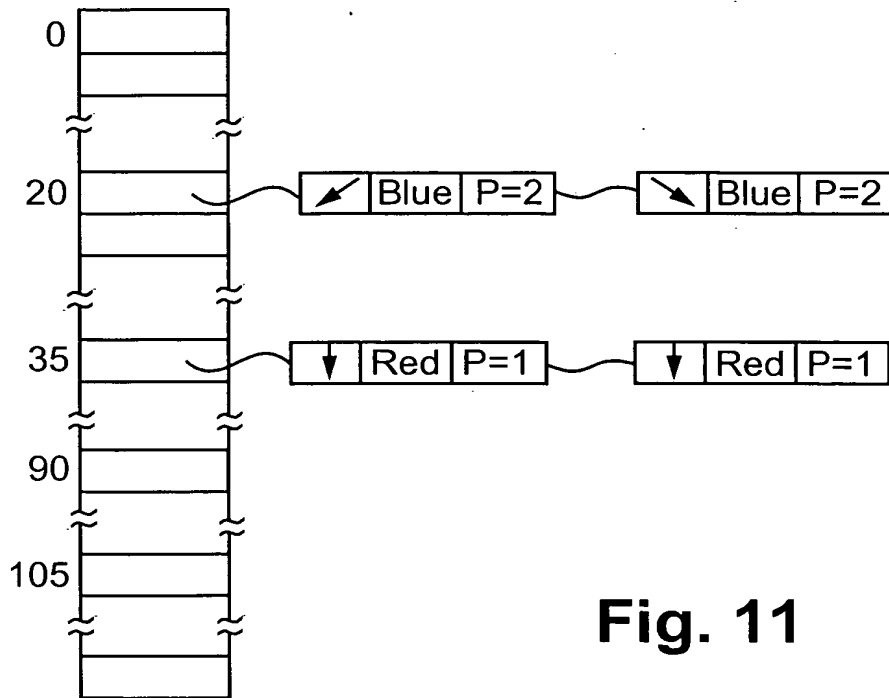


Fig. 11

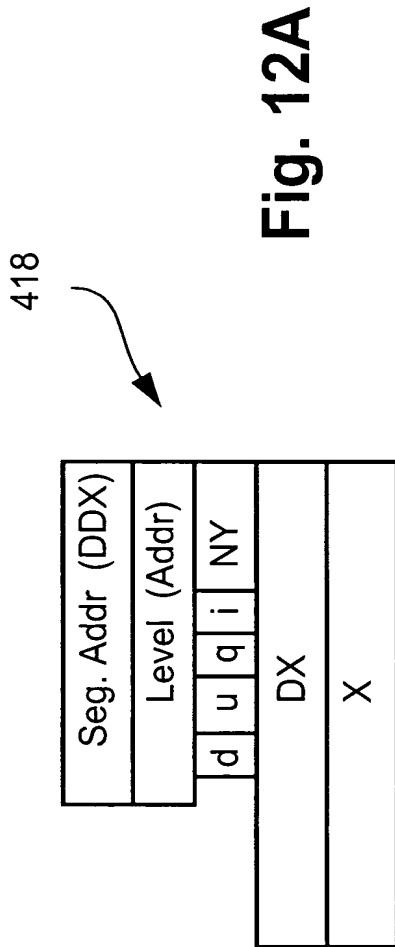


Fig. 12A

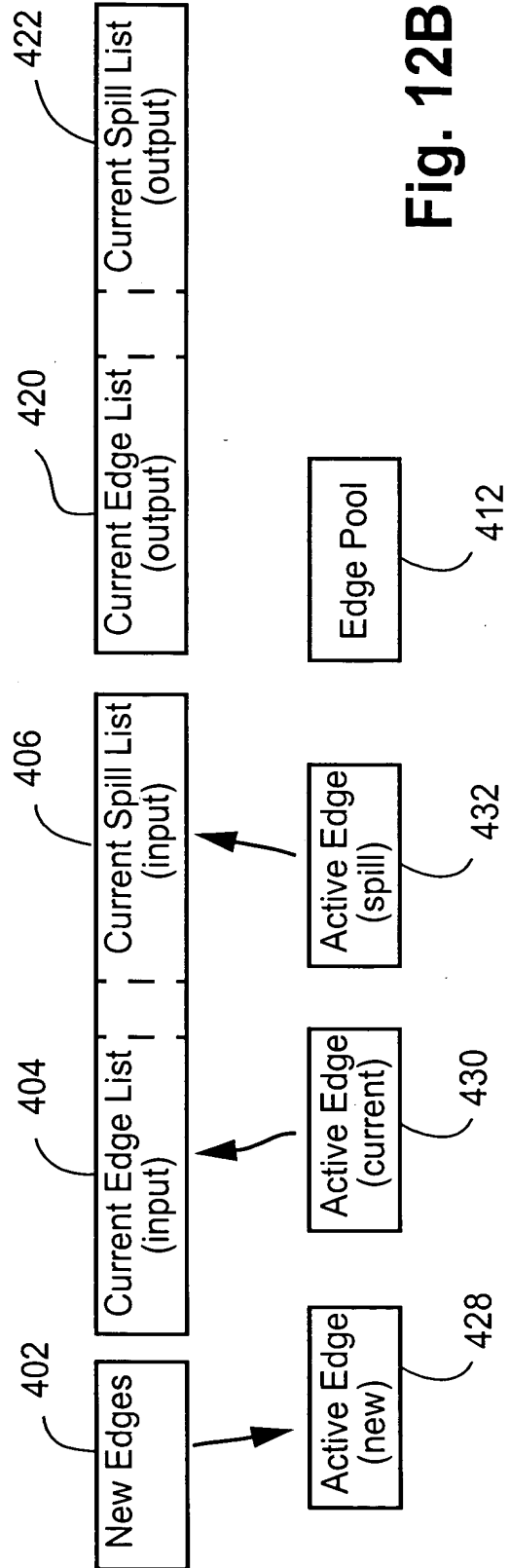


Fig. 12B

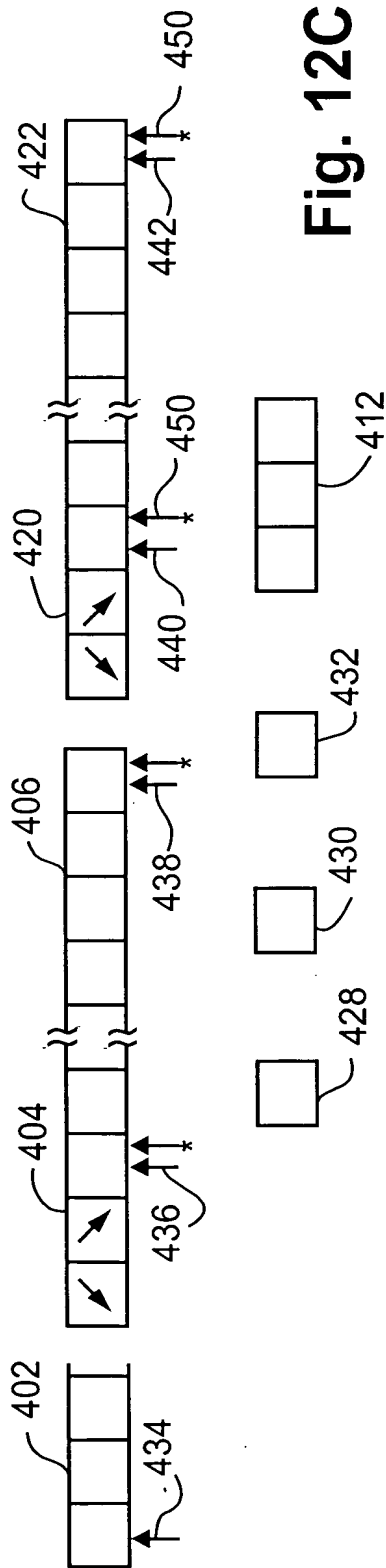


Fig. 12C

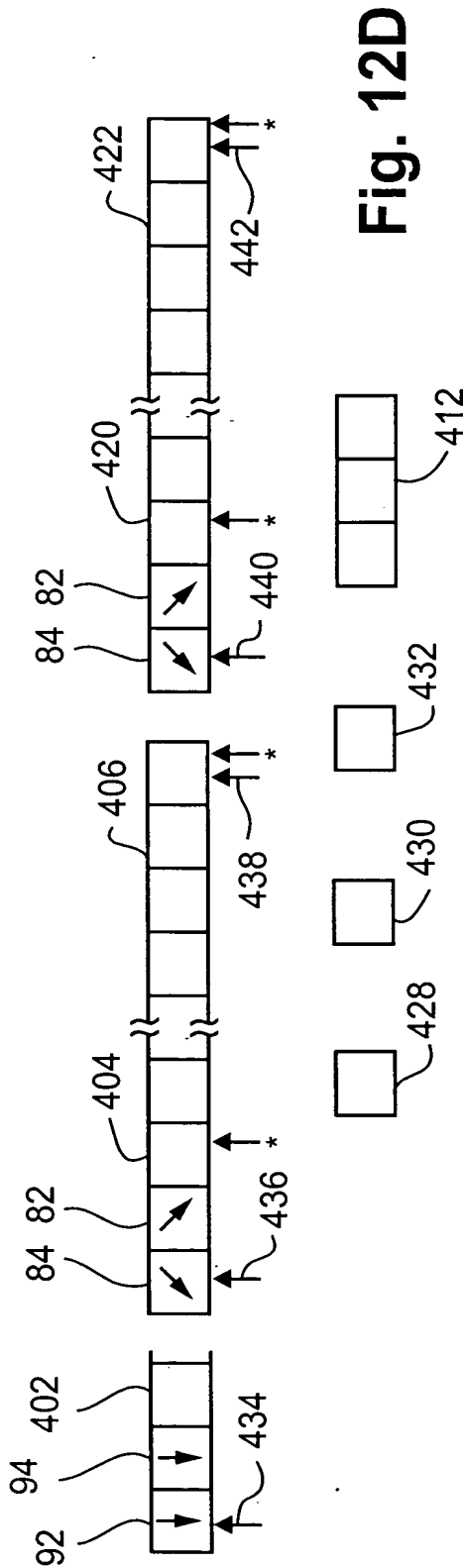


Fig. 12D

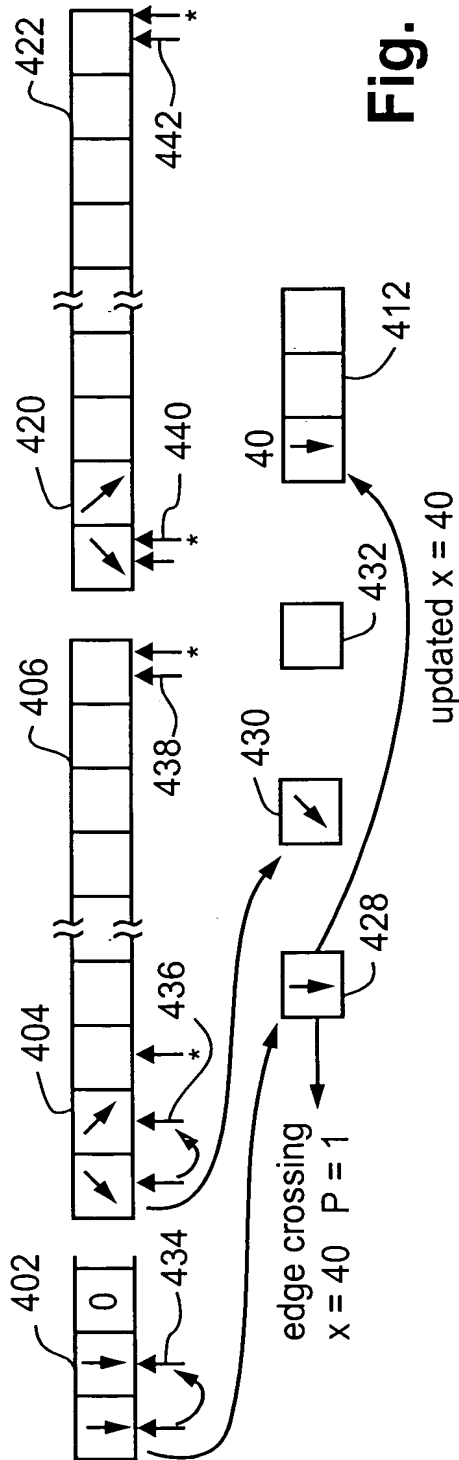


Fig. 12E

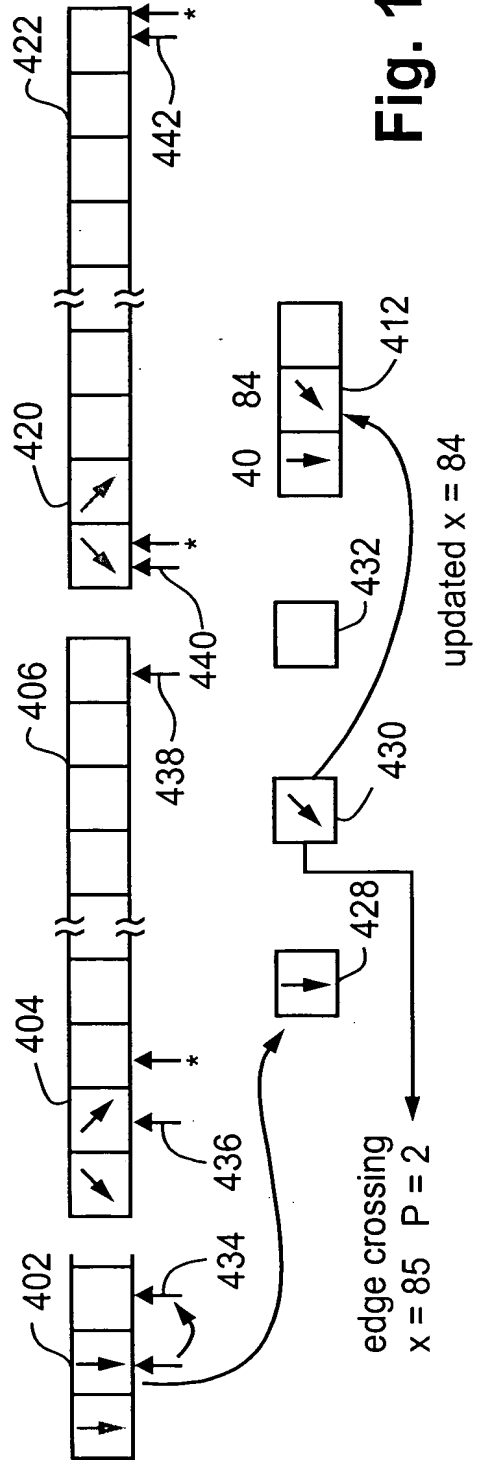
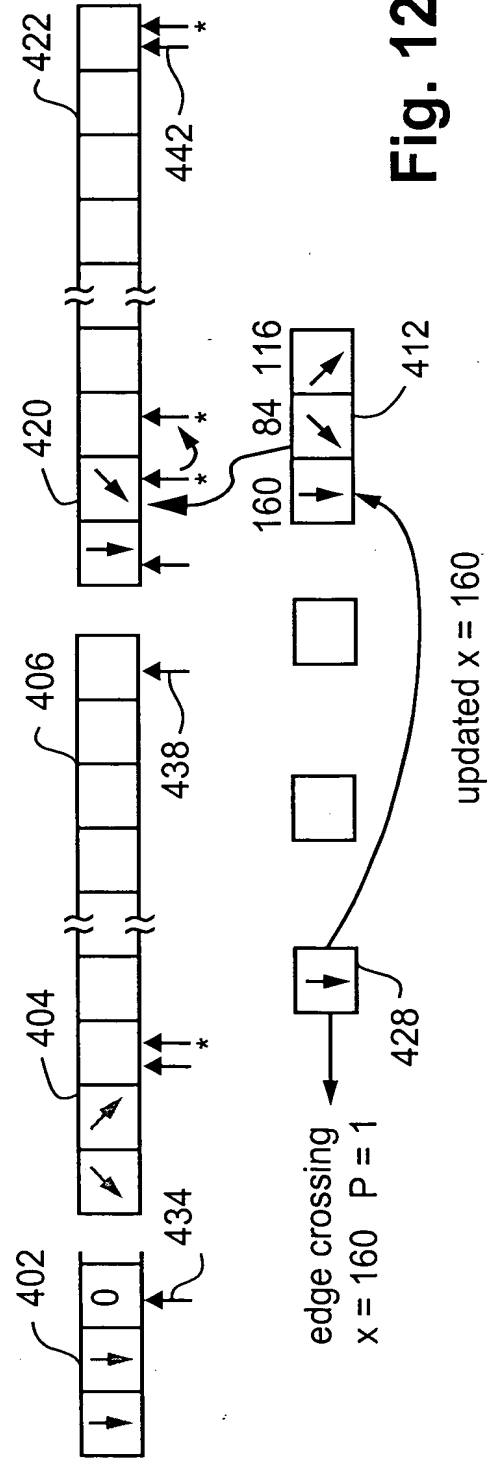
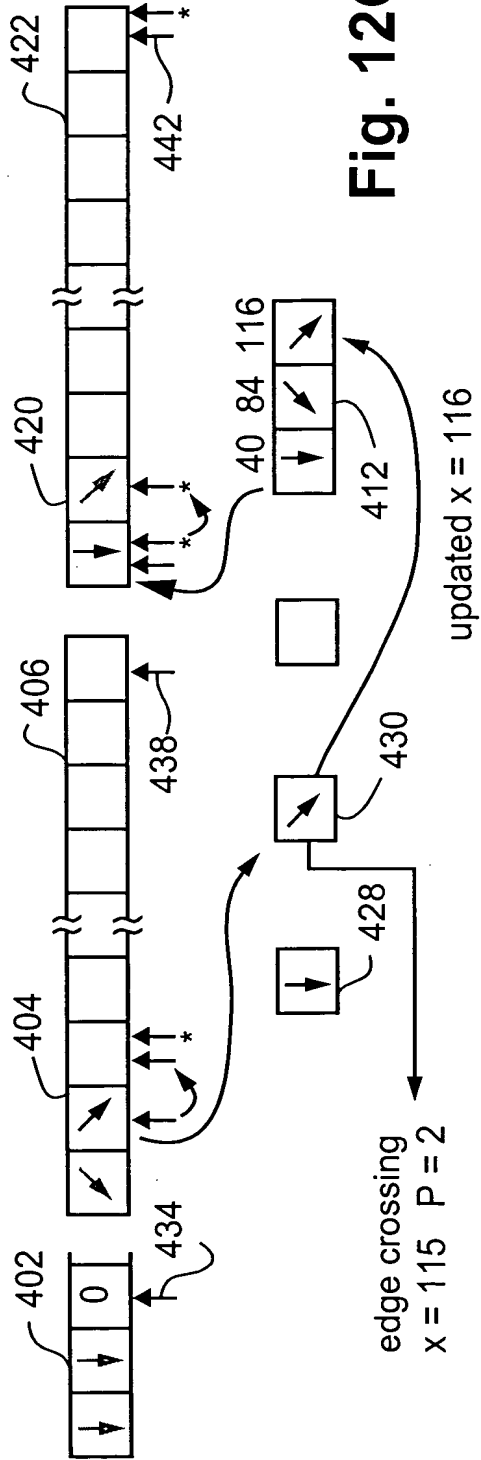


Fig. 12F



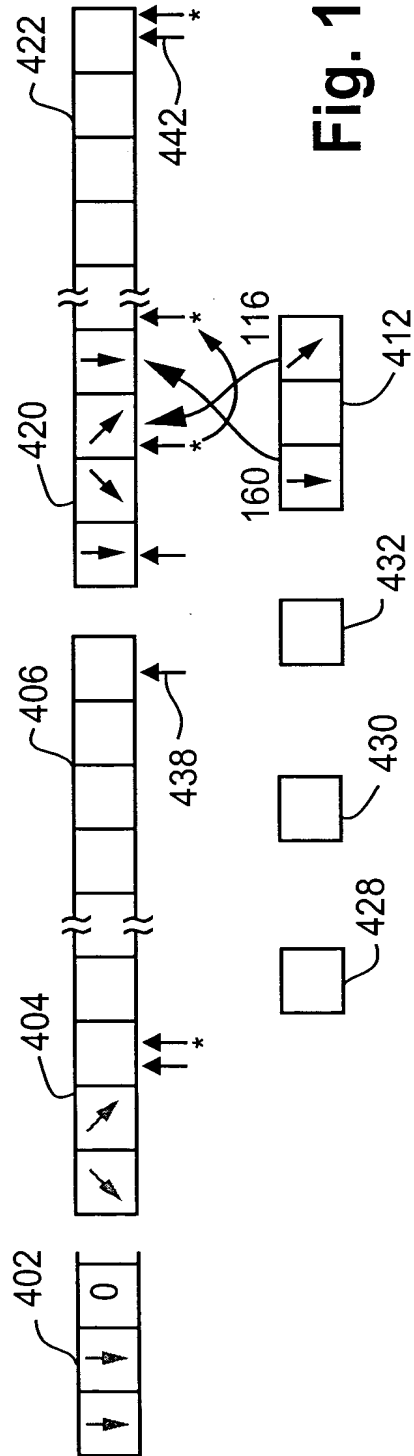


Fig. 12I

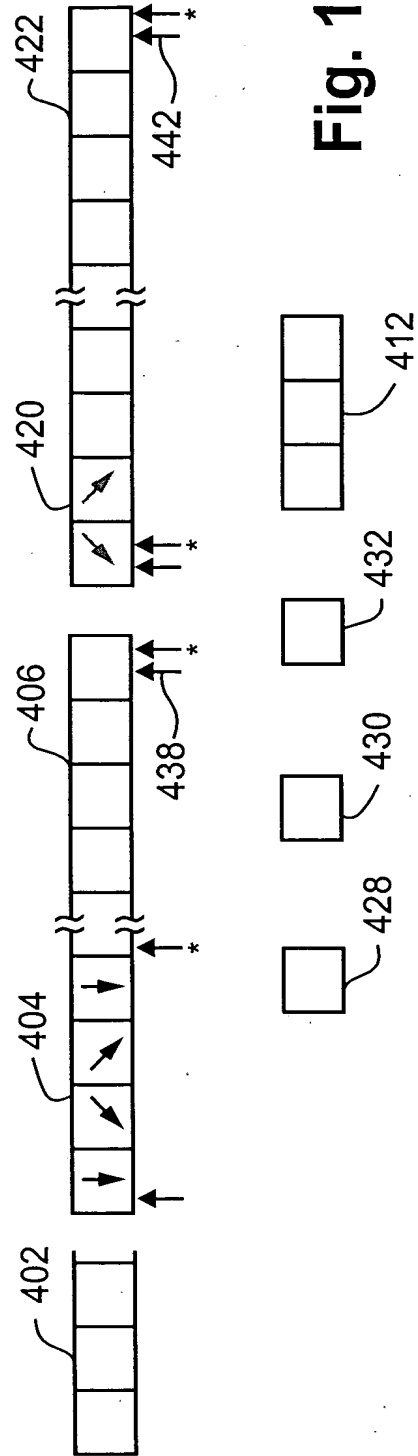
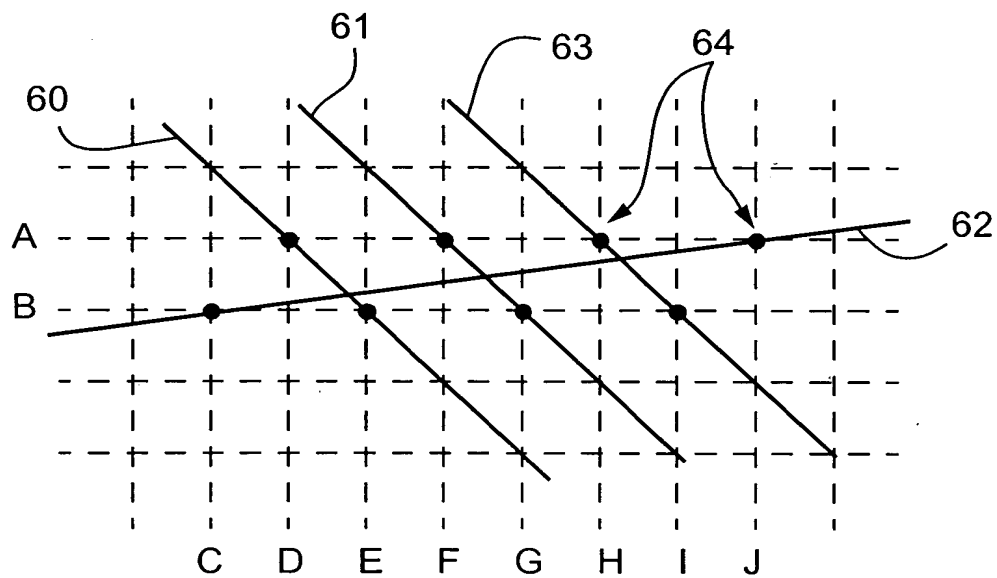
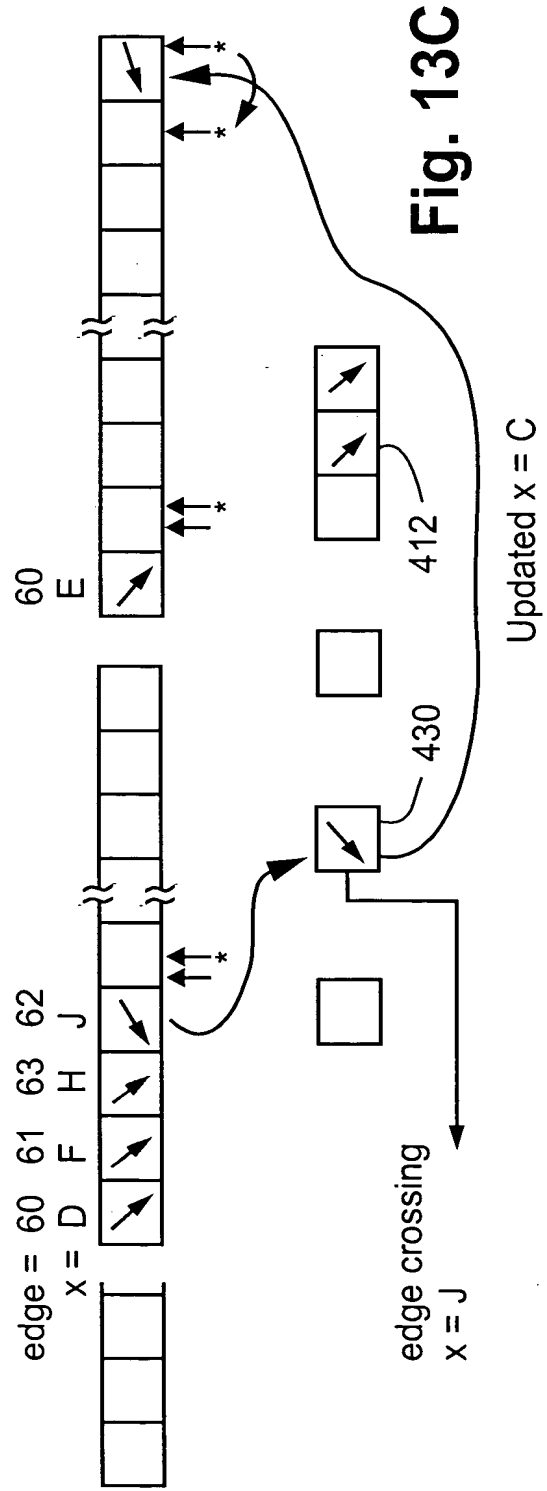
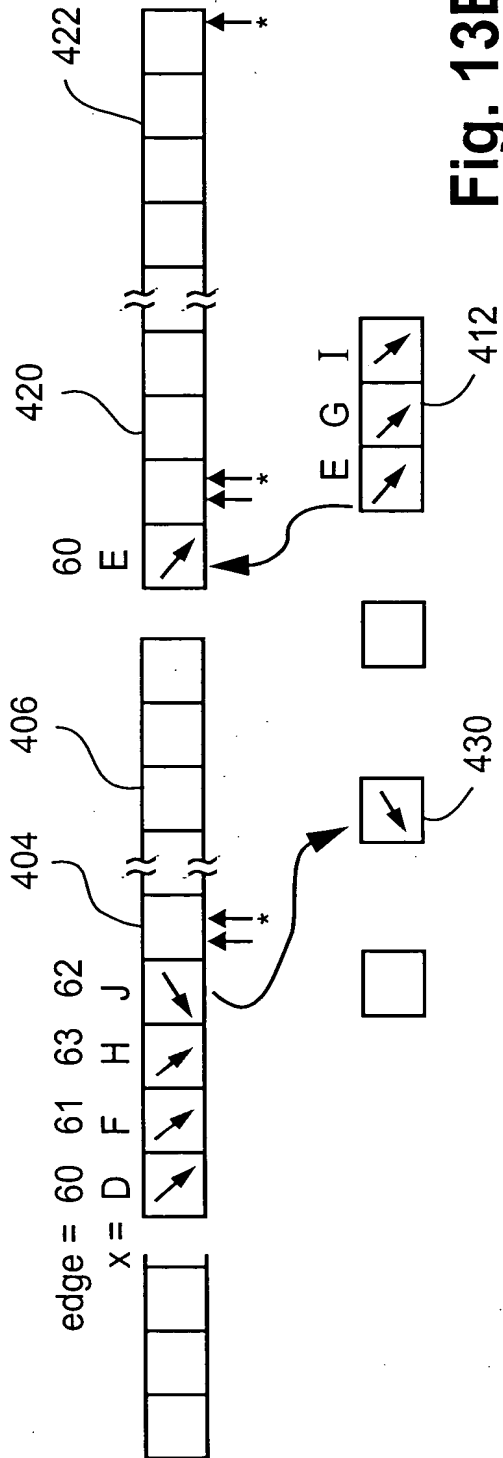


Fig. 12J

**Fig. 13A**



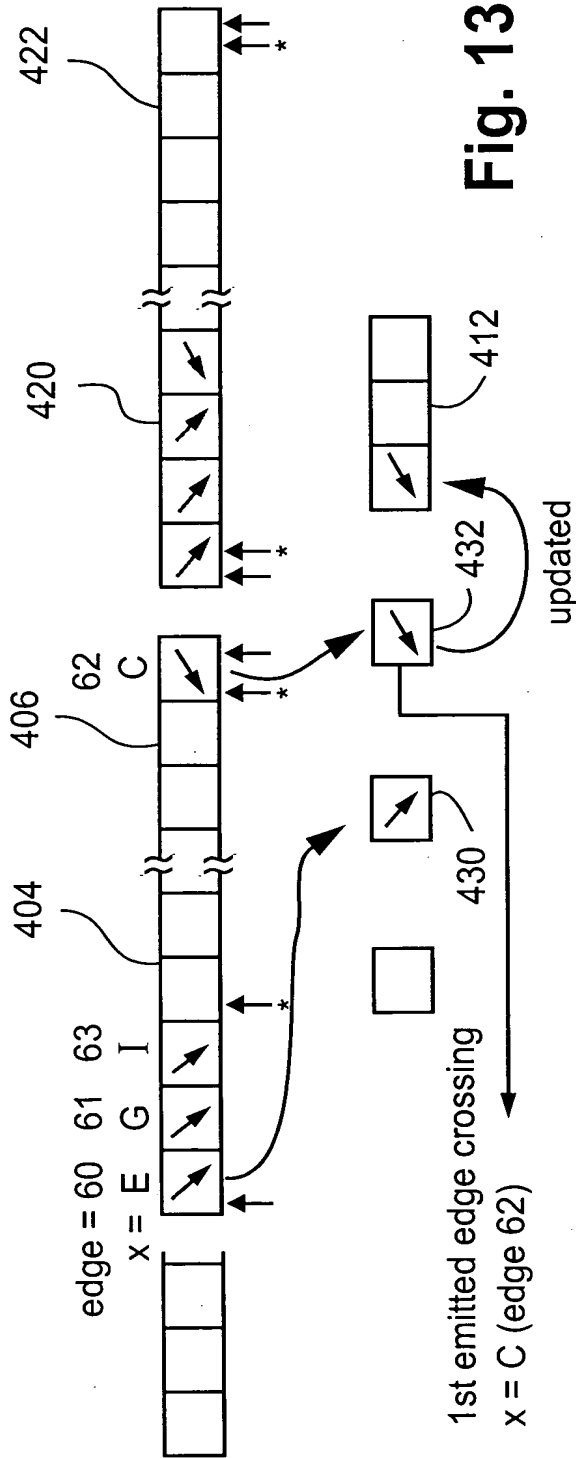


Fig. 13D

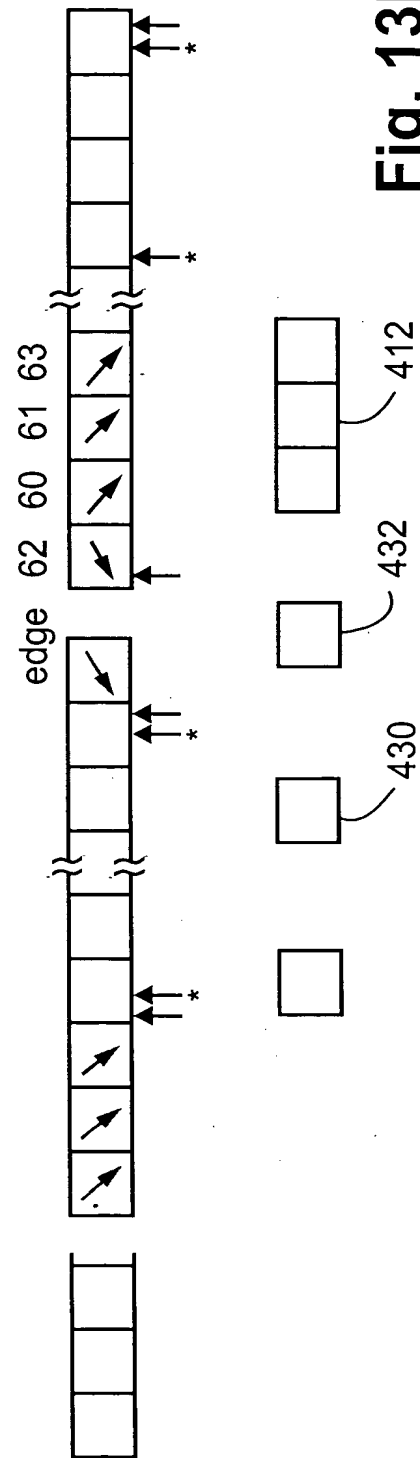


Fig. 13E

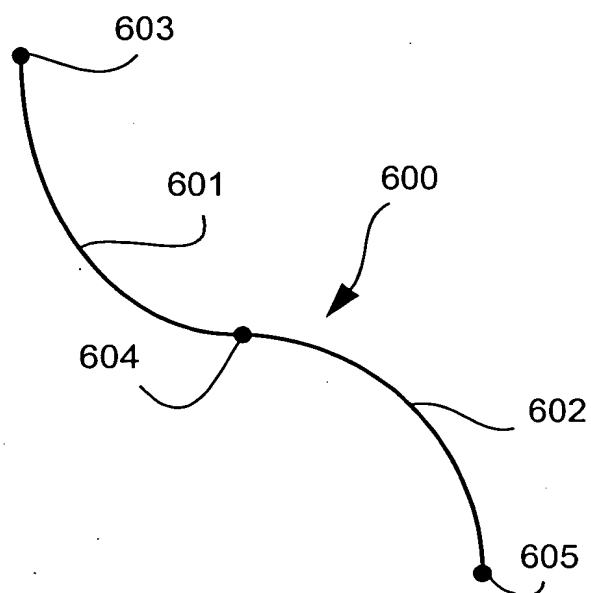


Fig. 14A
(Prior Art)

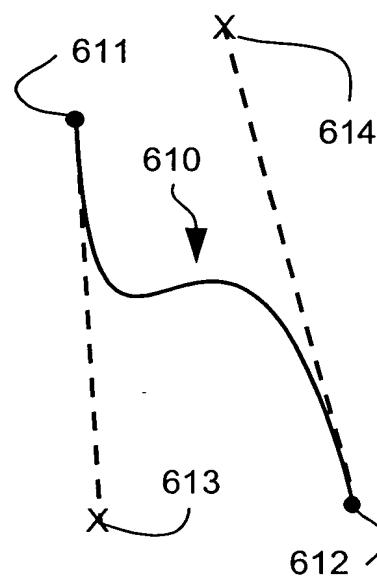


Fig. 14B
(Prior Art)

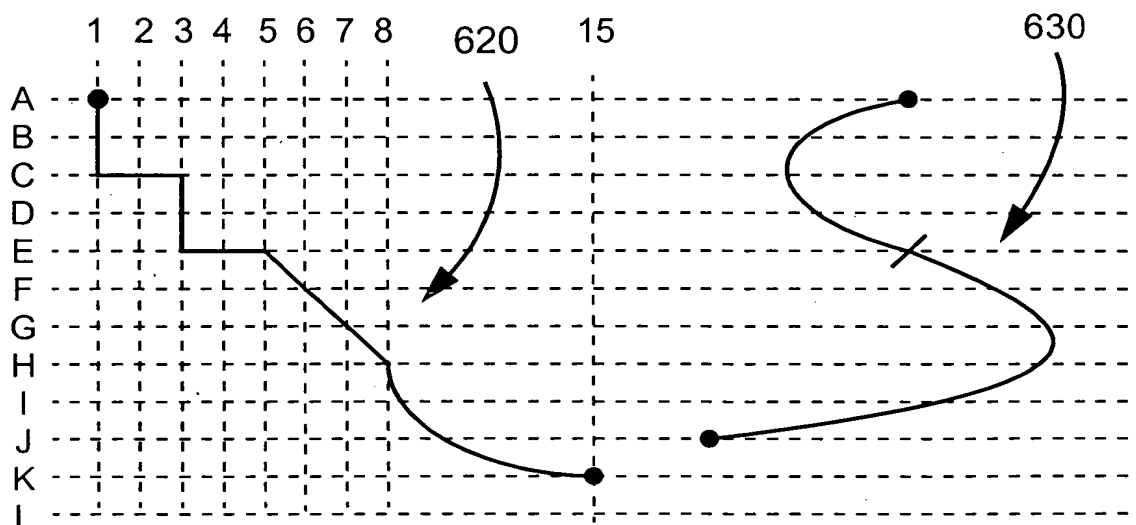
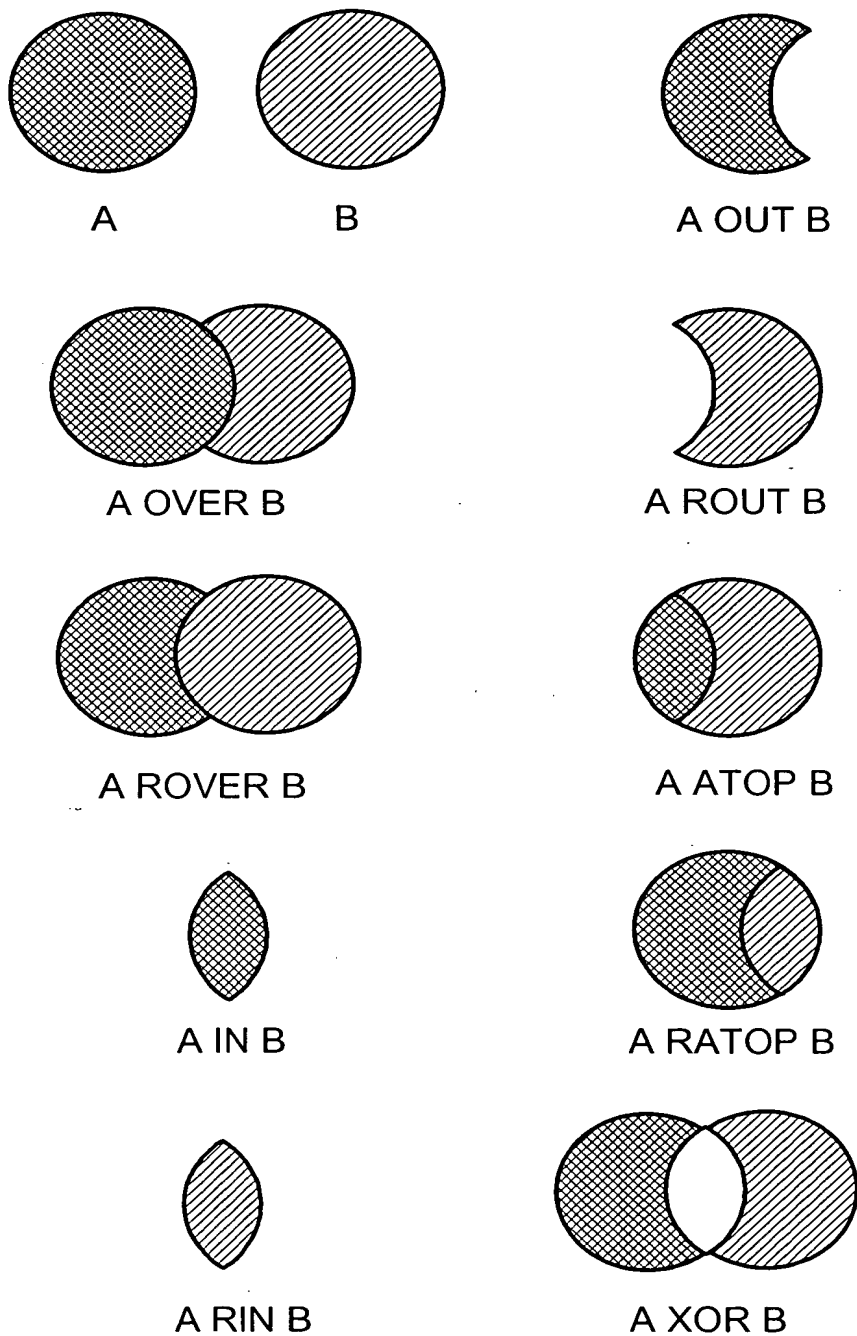


Fig. 14C

Fig. 14D

**Fig. 15**

Edge 84	Edge 92
X = 100	X = 40
NY = 70	NY = 70
DX = 1	DX = 0
DDX = 0	DDX = 0
P = 1	P = 0
DIR = (-)	DIR = (+)
ADD = (irrelevant in this example)	ADD = (irrelevant in this example)

Fig. 16

Raster operation code	Operation	Comment
0x00	$r = 0$	BLACKNESS
0x01	$r = \text{src} \& \text{dest}$	SRCAND
0x02	$r = \text{src} \& \sim \text{dest}$	SRCERASE
0x03	$r = \text{src}$	SRCCOPY
0x04	$r = \sim \text{src} \& \text{dest}$	
0x05	$r = \text{dest}$	NOP
0x06	$r = \text{src} \wedge \text{dest}$	SRCINVERT
0x07	$r = \text{src} \text{dest}$	SRCPAINT
0x08	$r = \sim(\text{src} \text{dest})$	NOTSRCERASE
0x09	$r = \sim(\text{src} \wedge \text{dest})$	
0x0a	$r = \sim \text{dest}$	DSTINVERT
0x0b	$r = \text{src} \sim \text{dest}$	
0x0c	$r = \sim \text{src}$	NOTSRCCOPY
0x0d	$r = \sim \text{src} \text{dest}$	MERGEPAINT
0x0e	$r = \sim(\text{src} \& \text{dest})$	
0x0f	$r = 0\text{xff}$	WHITENESS
0x10	$r = \min(\text{src}, \text{dest})$	
0x11	$r = \max(\text{src}, \text{dest})$	
0x12	$r = \text{clamp}(\text{src} + \text{dest})$	
0x13	$r = \text{src}$	
0x14	$r = \text{clamp}(\text{src} - \text{dest})$	
0x15	$r = \text{dest}$	
0x16	$r = \text{clamp}(\text{dest} - \text{src})$	
0x17	$r = \text{clamp}(\text{src} + \text{dest})$ where dest is signed	
0x18	$r = \text{threshold}(\text{dest}, \text{src})$	
0x19	$r = \text{threshold}(\text{src}, \text{dest})$	
0x1a	$r = \sim \text{dest}$	
0x1b	$o = \text{luminance}(\text{dest}, \text{src})$	
0x1c	$r = \sim \text{src}$	
0x1d	$o = \text{ckey}(\text{dest}; \text{src} +/- o)$	

Fig. 17

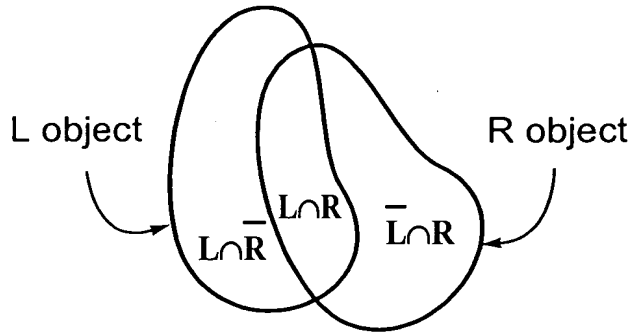


Fig. 18A

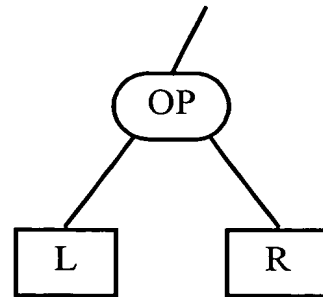


Fig. 18B

Fig. 19

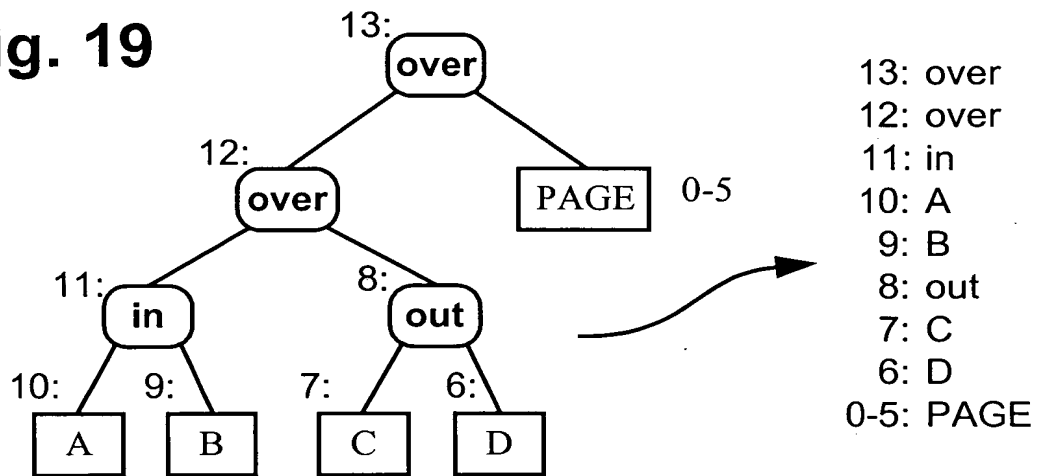
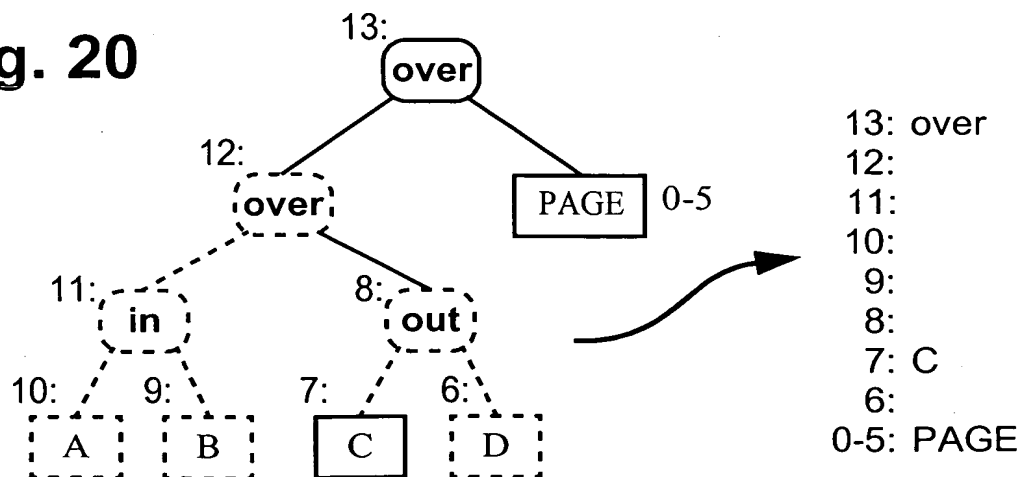


Fig. 20



Index	L Active	R Active	$\overline{L \wedge R}$ reqd	$\overline{L \wedge R}$ reqd	Leaf/ Operator Entry	Node Active	Node Parent	Node is L	Generate L	Generate R	$L \wedge R$ op used	R Branch Index
13	0	1	1	1	over	1	?	0	0	1	0	5
12	0	0	1	1	over	0	13	1	0	0	0	8
11	0	0	0	0	in	0	12	1	0	0	0	9
10					leaf A	0	11	1				
9					leaf B	0	11	0				
8	0	0	1	0	out	0	12	0	0	0	0	6
7					leaf C	0	8	1				
6					leaf D	0	8	0				
PAGE												

Fig. 21

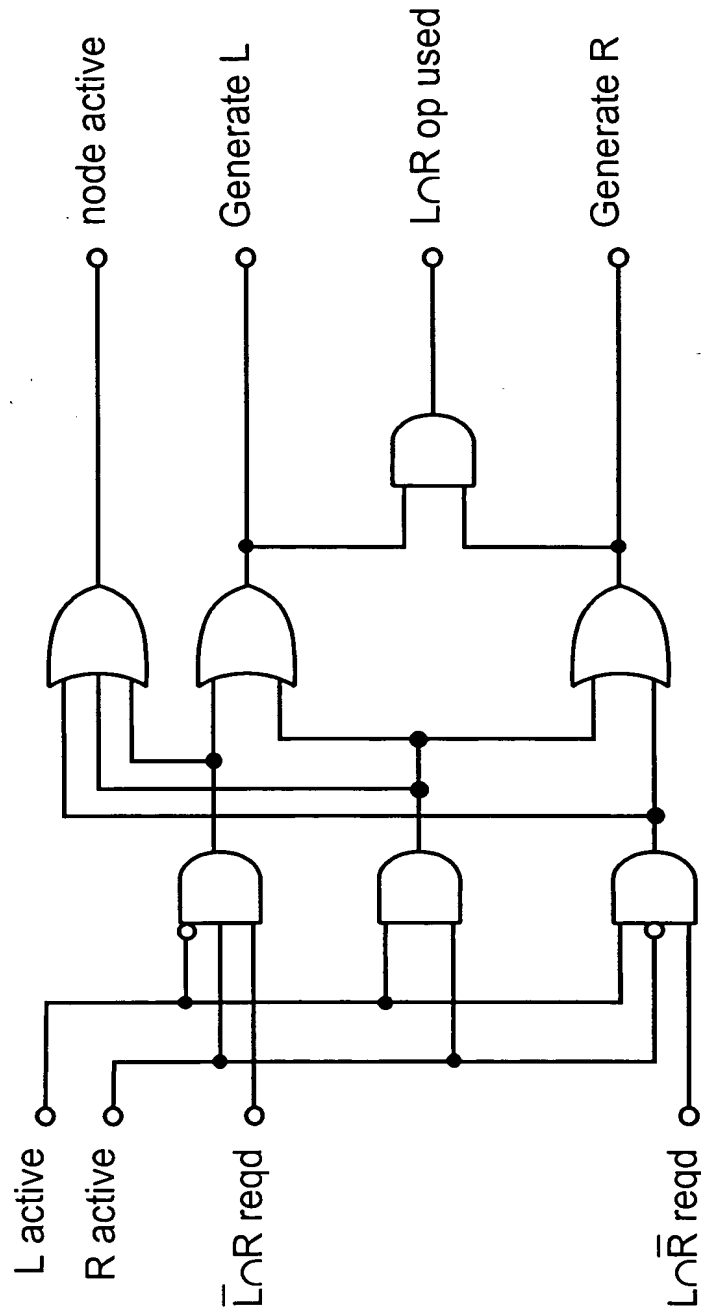


Fig. 22

Index	L Active	R Active	L \bar{R} reqd	$\bar{L}R$ reqd	Leaf/ Operator Entry	Node Active	Parent	Node is L	Generate L	Generate R	L \bar{R} op used	R Branch Index
13	1	1	1	1	over	1	?	0	1	1	1	5
12	0	1	1	1	over	1	13	1	0	1	0	8
11	0	0	0	0	in	0	12	1	0	0	0	9
10					leaf A	0	11	1				
9					leaf B	0	11	0				
8	1	0	1	0	out	1	12	0	1	0	0	6
7					leaf C	1	8	1				
6					leaf R	0	8	0				
PAGE												

Fig. 23

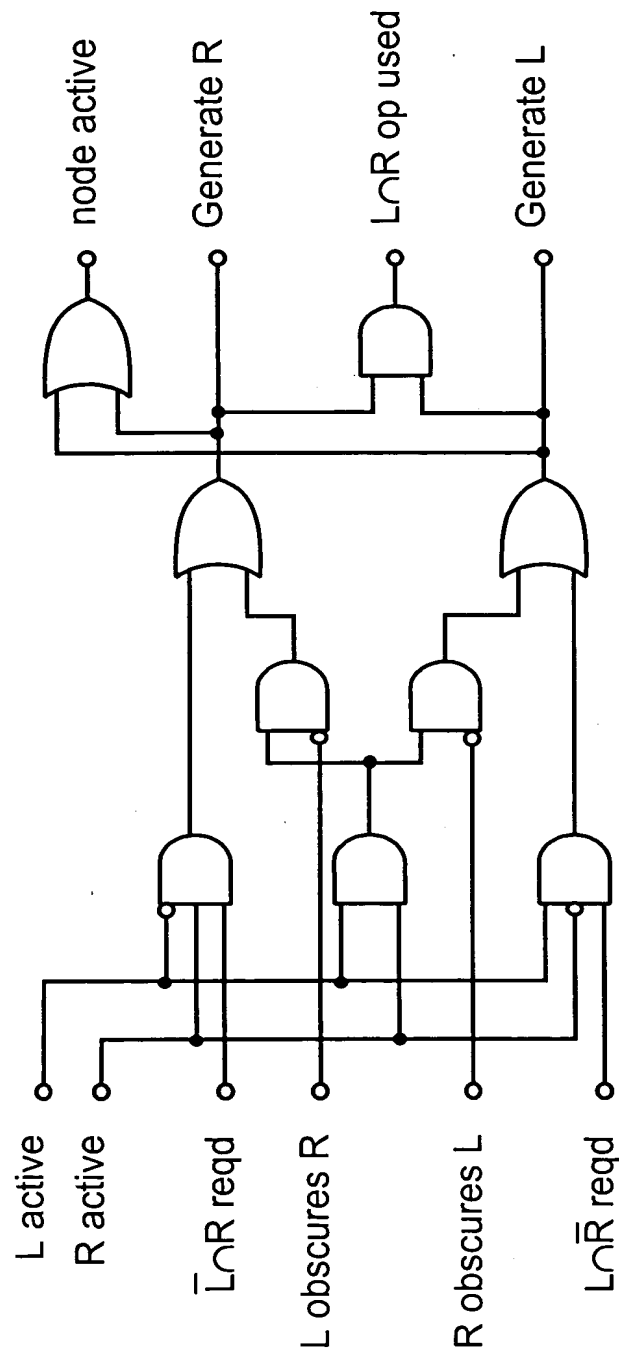


Fig. 24

Index	L Active	R Active	$L\bar{R}$ reqd	$\bar{L}R$ reqd	L obscures R	R obscures L	Leaf/ Operator Entry	Node Active	Parent	Node is L	Gene- rate L	Gene- rate R	$L\bar{R}$ op used	R Branch Index
			0	0	0	0	in							
			0	0	1	0	(CLIP IN)							
			1	0	0	0	out							
			1	0	1	1	(CLIP OUT)							

Fig. 25

L	T	T	T	L	L	L	O	O	O
R	T	R	O	T	R	O	T	R	O
Generate L	0	0	0	0	1	1	0	1	1
Generate R	0	0	0	0	0	0	0	0	0
Result	T	T	T	T	L	L	T	O	O

Fig. 26

L	T	T	T	L	L	L	O	O	O
R	T	R	O	T	R	O	T	R	O
Generate L	0	0	0	0	1	1	0	1	1
Generate R	0	0	0	0	1	1	0	1	1
Result	T	T	T	T	LR	L	T	R	O

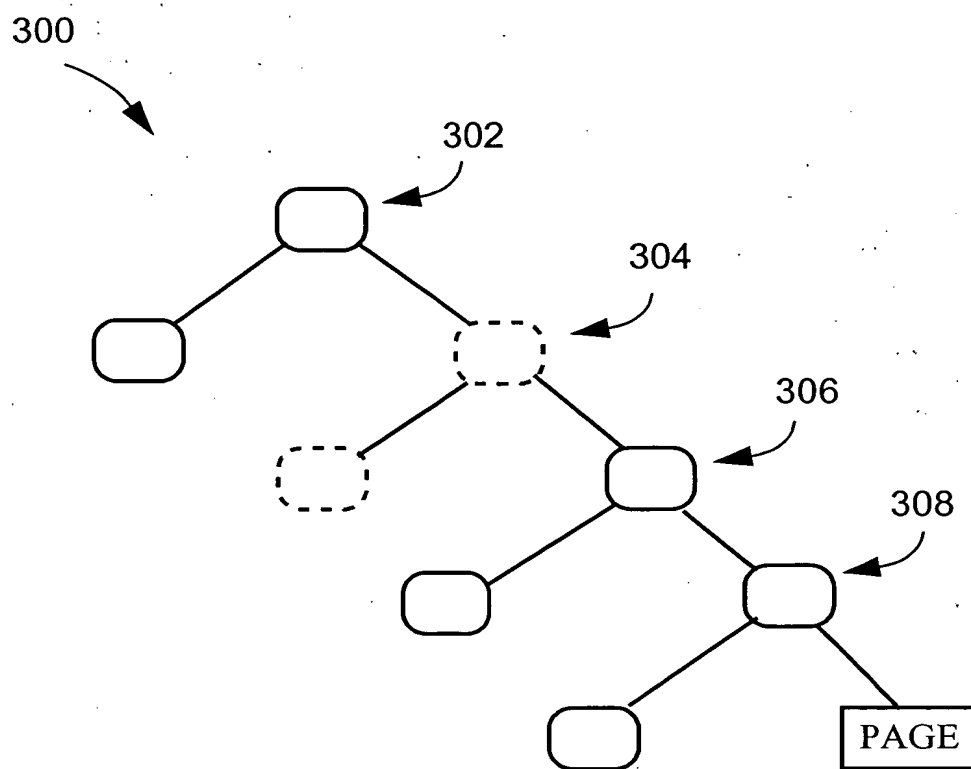
Fig. 27

	L	T	T	T	L	L	L	O	O	O
	R	T	R	O	T	R	O	T	R	O
Generate L	0	0	0	1	1	1	1	1	1	1
Generate R	0	0	0	0	1	1	0	1	1	1
Result	T	T	T	L	$L(1-R)$	T	O	$(1-R)$	T	T

Fig. 28

	L	T	T	T	L	L	L	O	O	O
	R	T	R	O	T	R	O	T	R	O
Generate L	0	0	0	1	0	0	1	0	0	0
Generate R	0	0	0	0	0	0	0	0	0	0
Result	T	T	T	L	T	T	O	T	T	T

Fig. 29

**Fig. 30**